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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/04/2004

DORSEY & WHITNEY LLP 1001 PENNSYLVANIA AVENUE STE. 400 WASHINGTON, DC 20004-2533

EXA	MINER
SONG	, HOON K
ART UNIT	PAPER NUMBER
2882	

DATE MAILED: 03/04/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,035	02/14/2001	Nixon O	5727	9895

TITLE OF INVENTION: DUAL LINE INTEGRATING LINE SCAN SENSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	06/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

03/04/2004

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signature) (Date)

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nonprovisional	YES	\$665		\$0	\$665	06/04/2004
EXAMINER SONG, HOON K		ART UNIT 2882		CLASS-SUBCLASS 250-208100		
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. 			names of agents OR	up to 3 registered patent and a large at the state of the	attorneys or 1	
□ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		agent) and	I the names of up to 2 regis or agents. If no name is liste	stered patent		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

(11) 1111111111111111111111111111111111	(b) RESIDENCE. (CIT	i and STATE OF	K COOKINI)	
Please check the appropriate assignee category or cate	egories (will not be printed on the notent):	□ individual	O corporation or other private group entit	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	- Individual	corporation or other private group entit	y 🔾 governmen
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	()		
☐ Advance Order - # of Copies	The Director is he Deposit Account Nur	reby authorized	by charge the required fee(s), or credit an (enclose an extra copy of th	y overpayment, to
Director for Patents is requested to apply the Issue Fe	e and Publication Fee (if any) or to re-apply	any previously p	paid issue fee to the application identified ab	ove.
(Authorized Signature)	(Date)	······································	 	
NOTE; The Issue Fee and Publication Fee (if req other than the applicant; a registered attorney or interest as shown by the records of the United States	agent; or the assignee or other party in			
This collection of information is required by 37 C obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.C estimated to take 12 minutes to complete, including completed application form to the USPTO. Time case. Any comments on the amount of time yo suggestions for reducing this burden, should be se Patent and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMP SEND TO: Commissioner for Patents, Alexandria, No.	nt to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia LETED FORMS TO THIS ADDRESS.			
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			DATE MAILED: 03/04/2004	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 346 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 346 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/782,035	O, NIXON
Notice of Allowability	Examiner ·	Art Unit
	Hoon Song	2882
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	vill be mailed in due course. THIS
1. This communication is responsive to <u>response filed on 1/2</u>	<u>8/04</u> .	,s
2. The allowed claim(s) is/are 2,3,5-7,9-13,15 and 17.		
3. The drawings filed on 14 February 2001 are accepted by the	ne Examiner.	
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date [b) including changes required by the attached Examiner' Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the deposition of the depositi	e been received. e been received in Application No cuments have been received in this re of this communication to file a reply of this application. Interest Note the attached EXAMINER's reason(s) why the oath or declarates to be submitted. Is on's Patent Drawing Review (PTO- Interest Amendment / Comment or in the Comment or in the Comment of the drawing the header according to 37 CFR 1.121(comment of BIOLOGICAL MATERIAL in the second comment of the drawing sit of BIOLOGICAL MATERIAL in the second comment of the drawing sit of BIOLOGICAL MATERIAL in the second comment of the drawing sit of BIOLOGICAL MATERIAL in the second comment of the second comment of the drawing sit of BIOLOGICAL MATERIAL in the second comment of the second comme	complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). nust be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Dat 08), 7. Examiner's Amendr	ie

DETAILED ACTION

Allowable Subject Matter

Claims 2, 3, 5-7, 9-13, 15 and 17 allowed over prior art.

The following is an examiner's statement of reasons for allowance:

None of the prior art teaches or suggests a line scan sensor having first and second rows of pixels defined along respective first and second lines and the first line being spaced from and parallel to the second line, a first clocking structure disposed between the first row of pixels and a first readout register, wherein the first clocking structure includes a transfer gate electrode and a delay well electrode and a second clocking structure disposed between a second row of pixels and a second readout register, wherein the second clocking structure includes a transfer gate electrode and a delay well electrode as claimed in independent claims 2 and 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoon Song whose telephone number is (571) 272-2494. The examiner can normally be reached on 8:30 AM - 5 PM, Monday - Friday.

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Art Unit: 2882

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272 - 2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LVC

2/12/04

EDWARD J. GLICK SUPERVISORY PATENT EXAMINER